

FIGURE 1

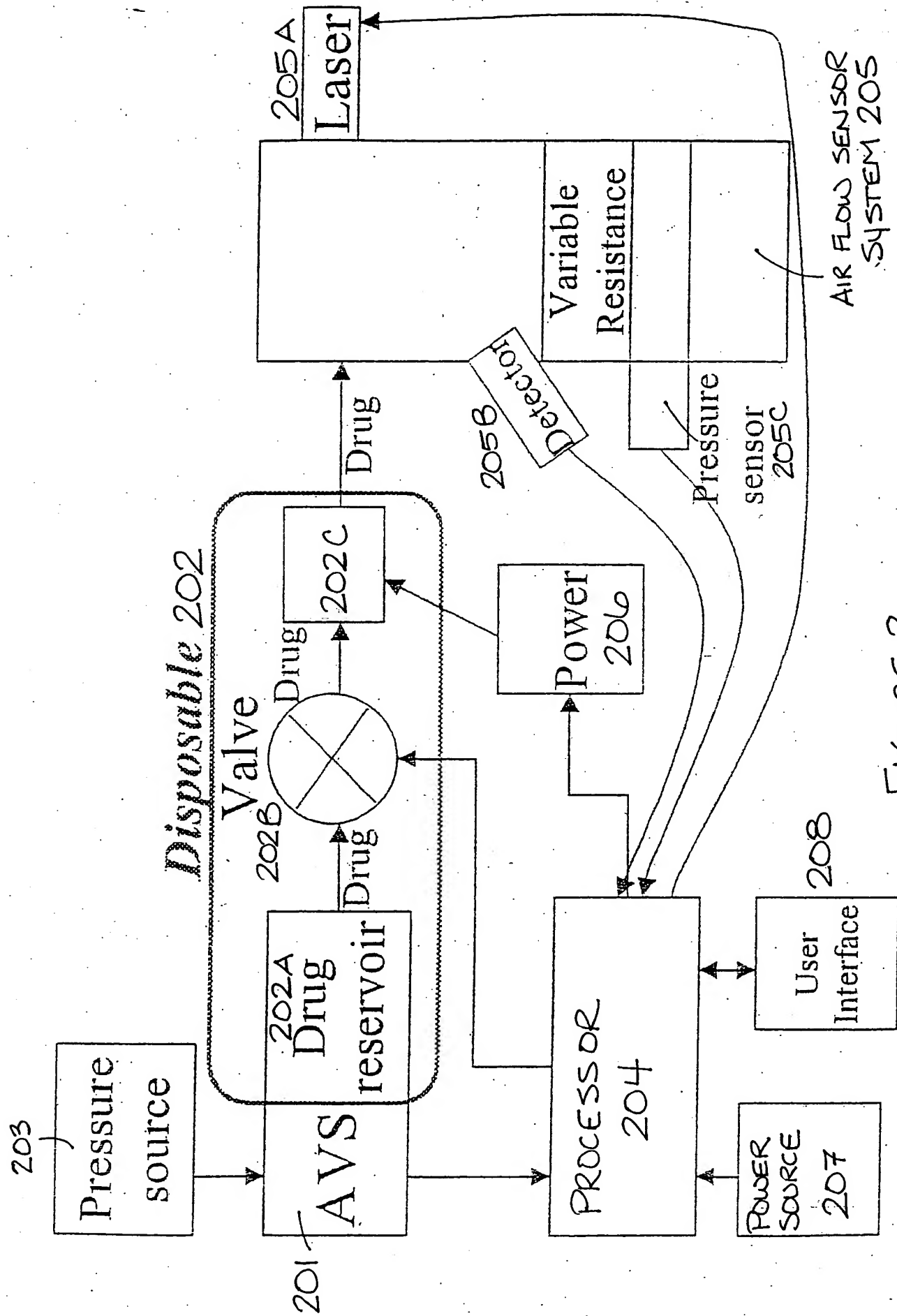


FIGURE 2

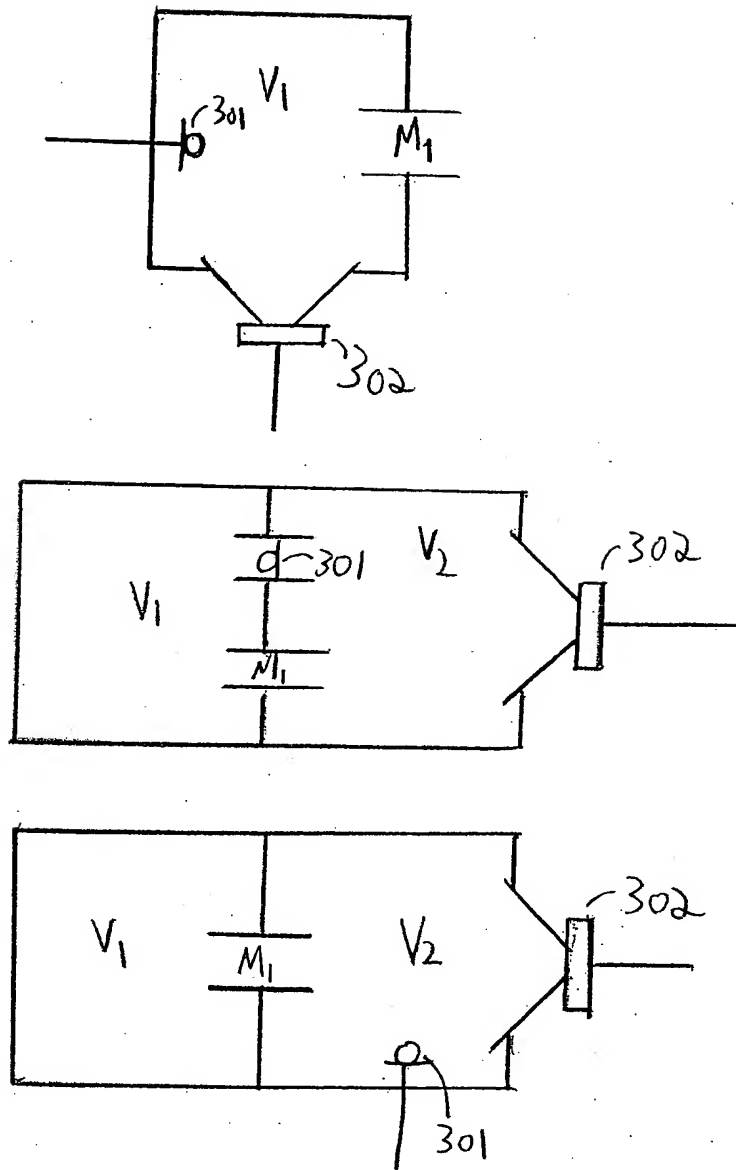


Figure 3

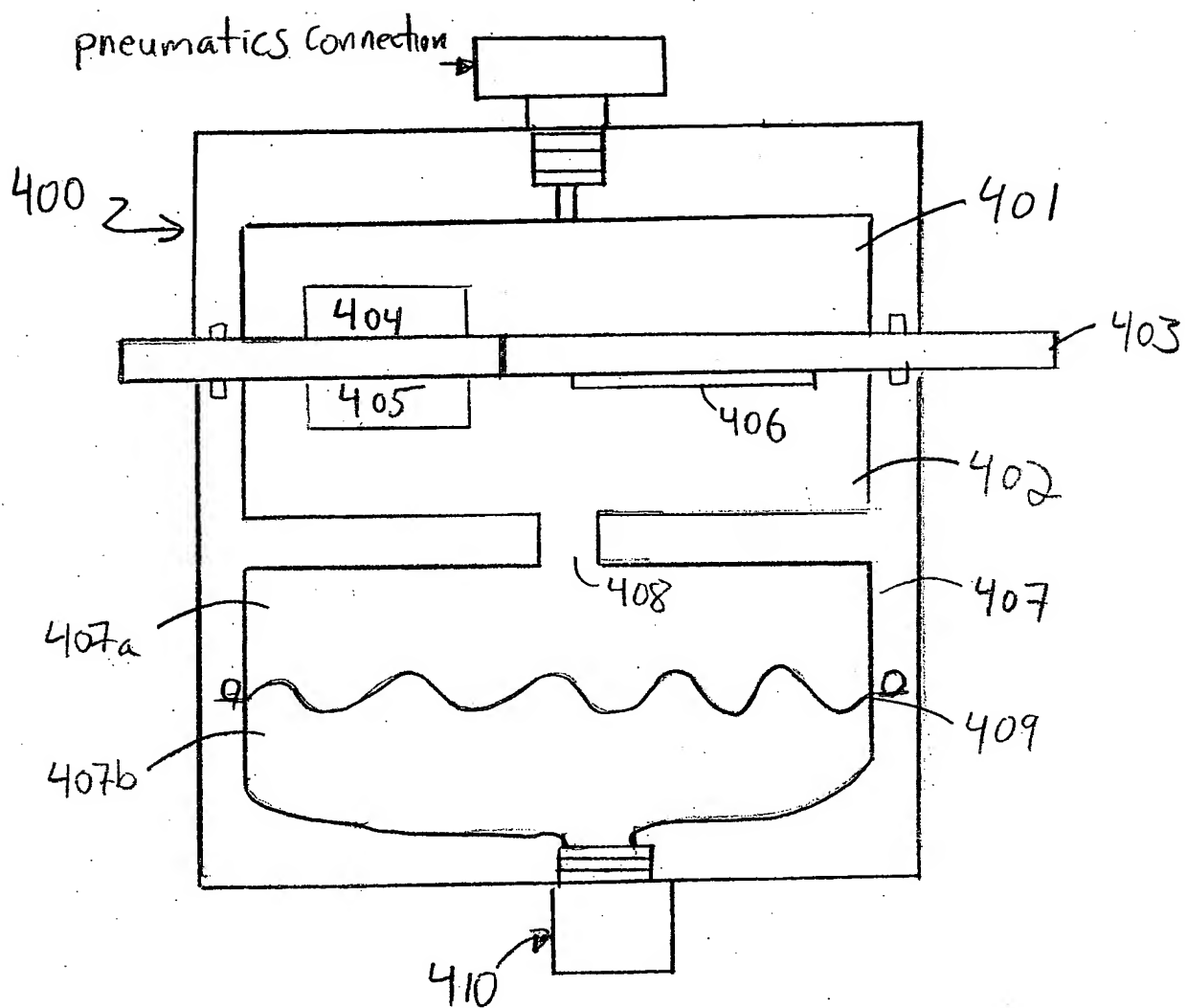
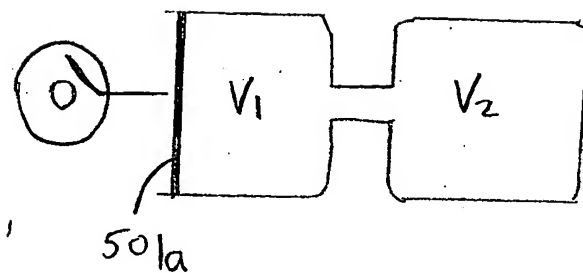
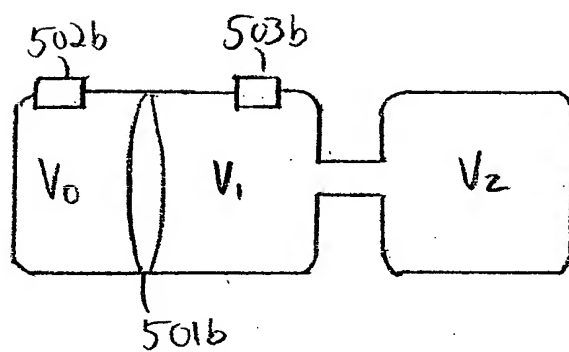


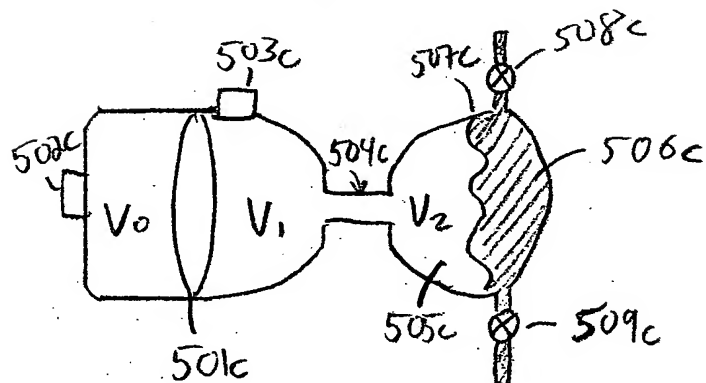
Figure 4



5a



5b



5c

Figure 5

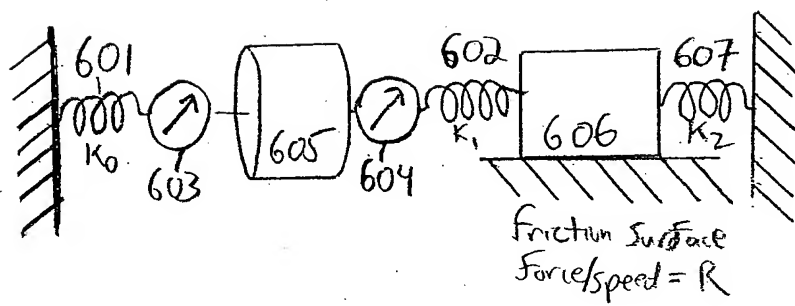


Figure 6

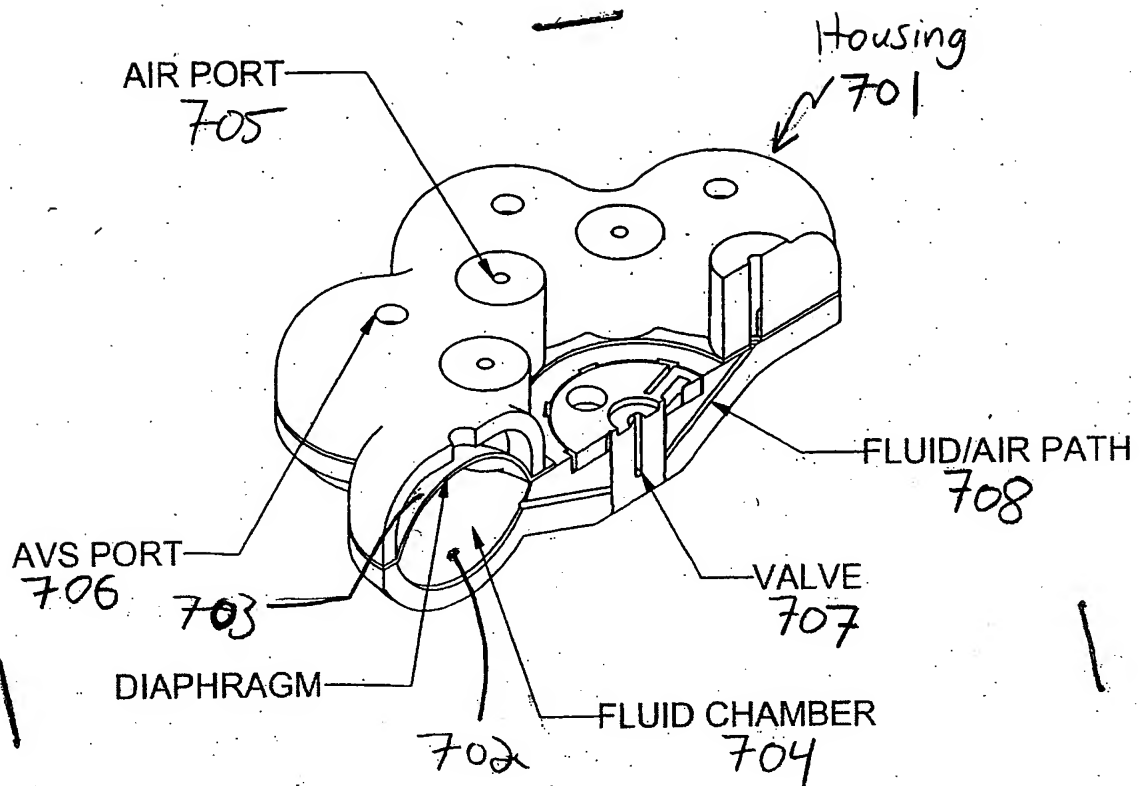


Figure 7

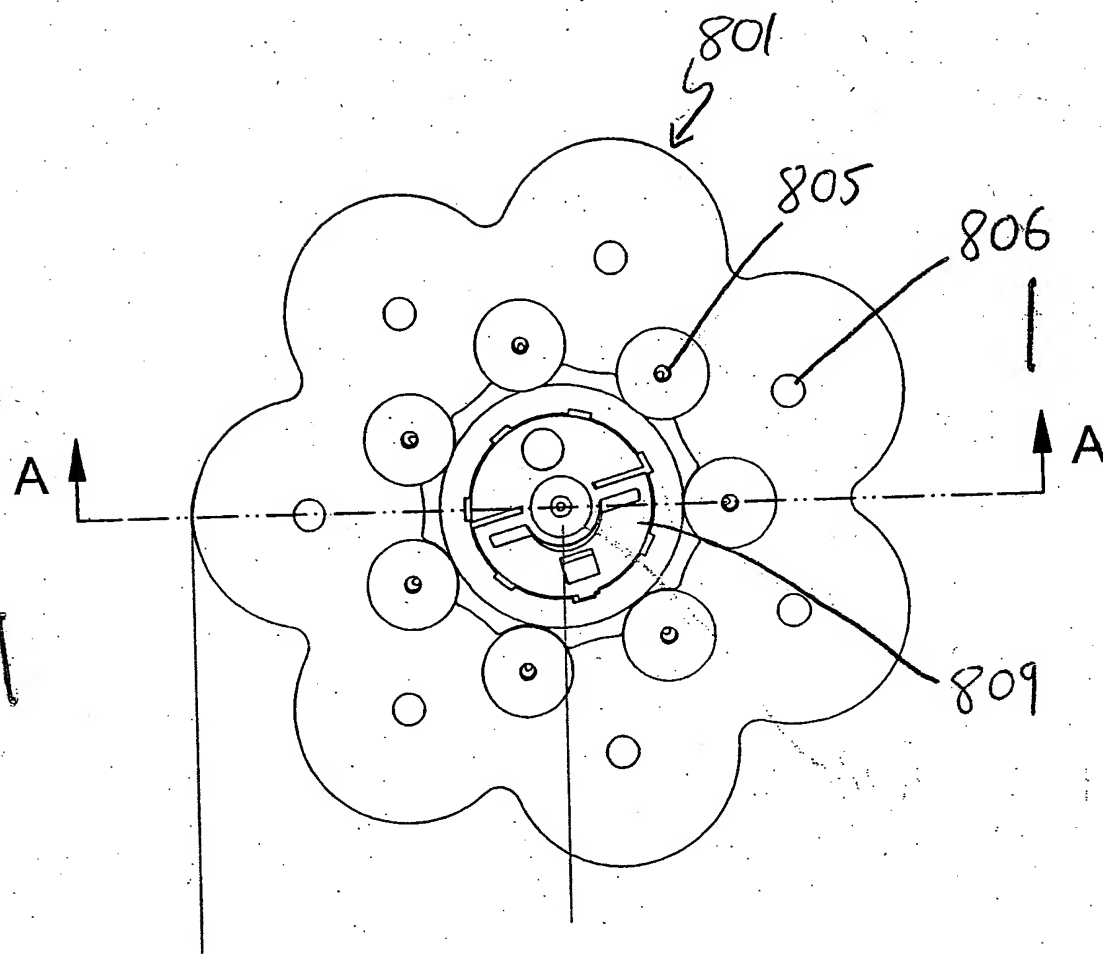


Figure 8



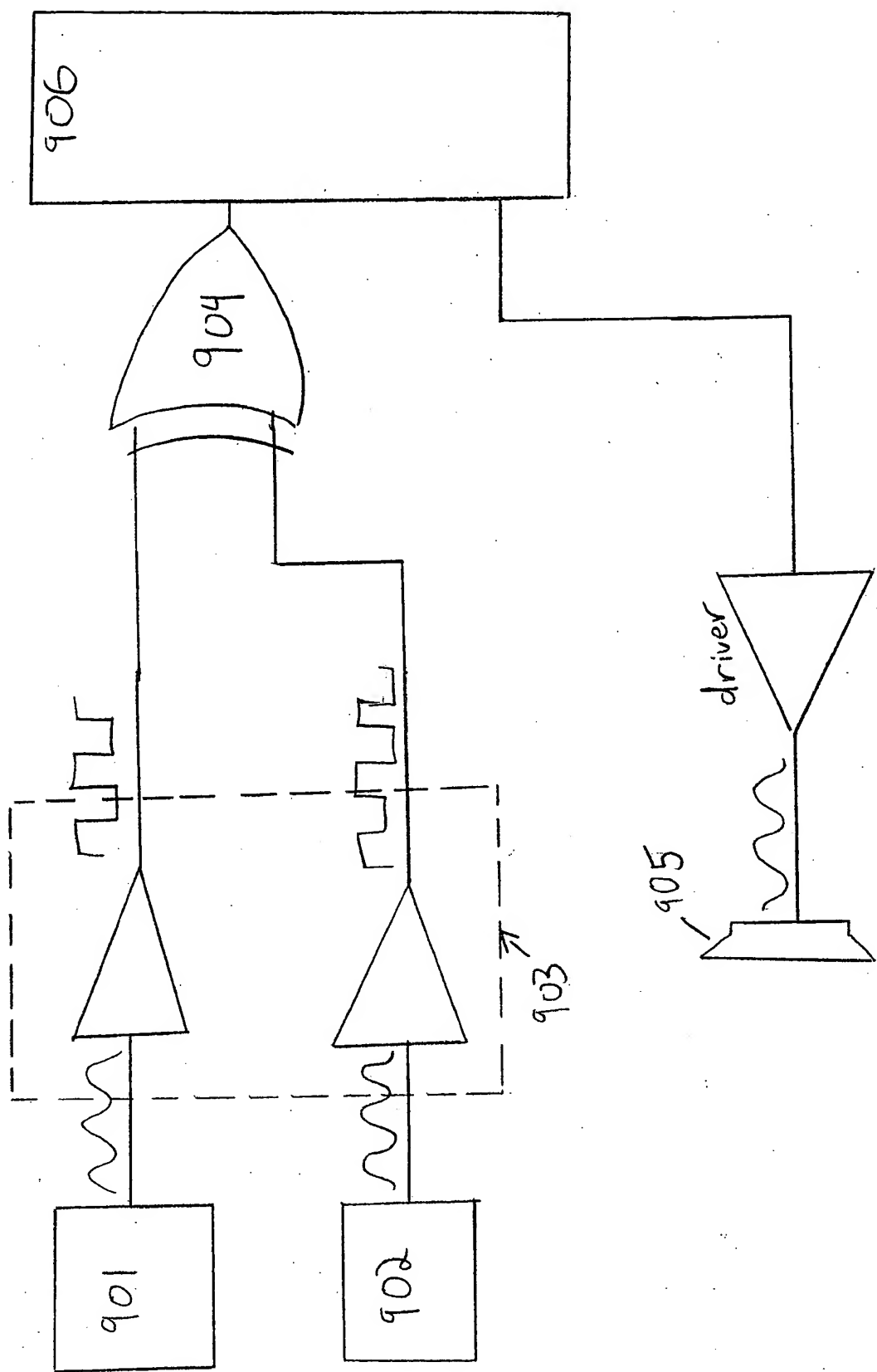


Figure 9

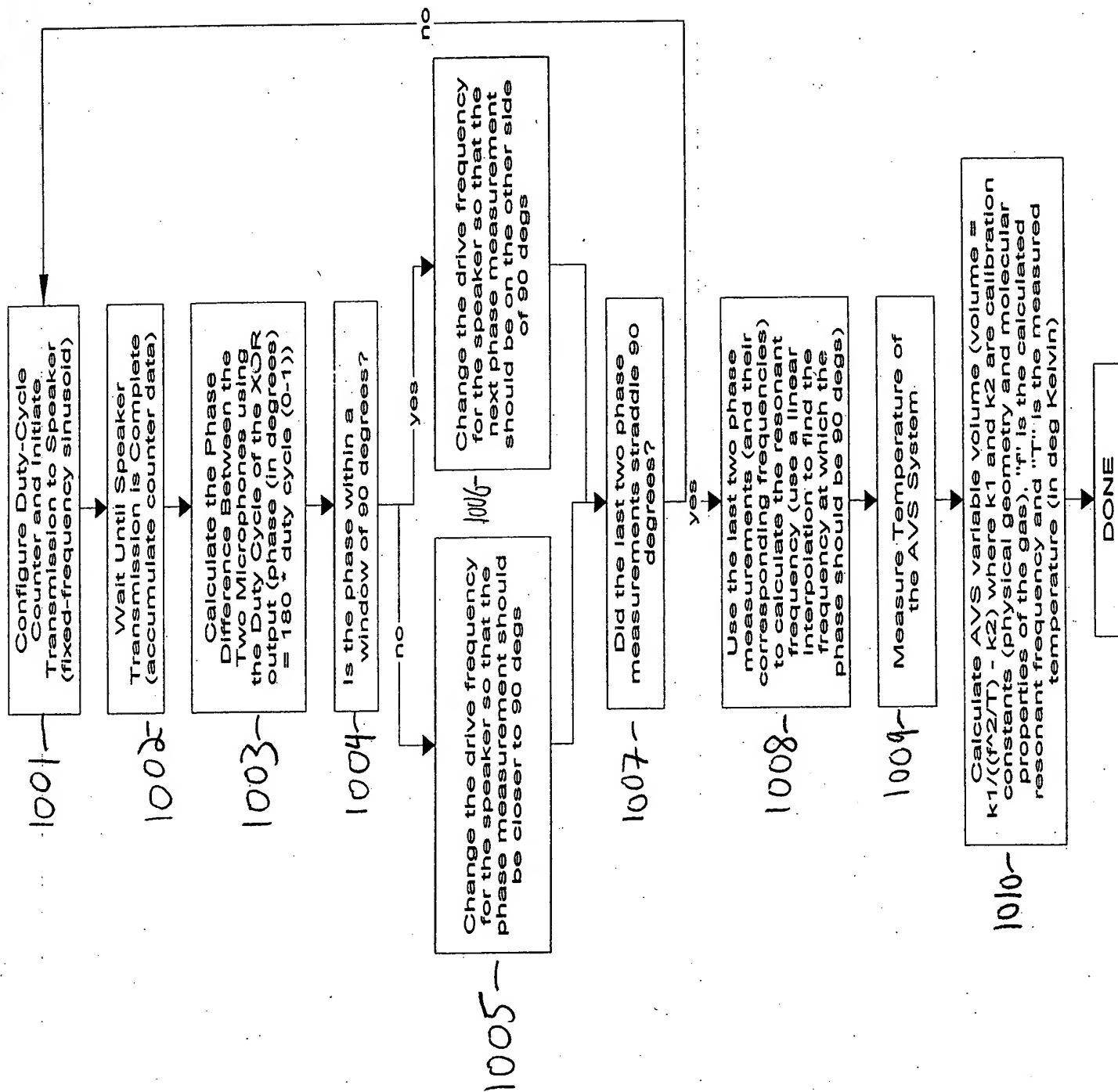


Figure 10

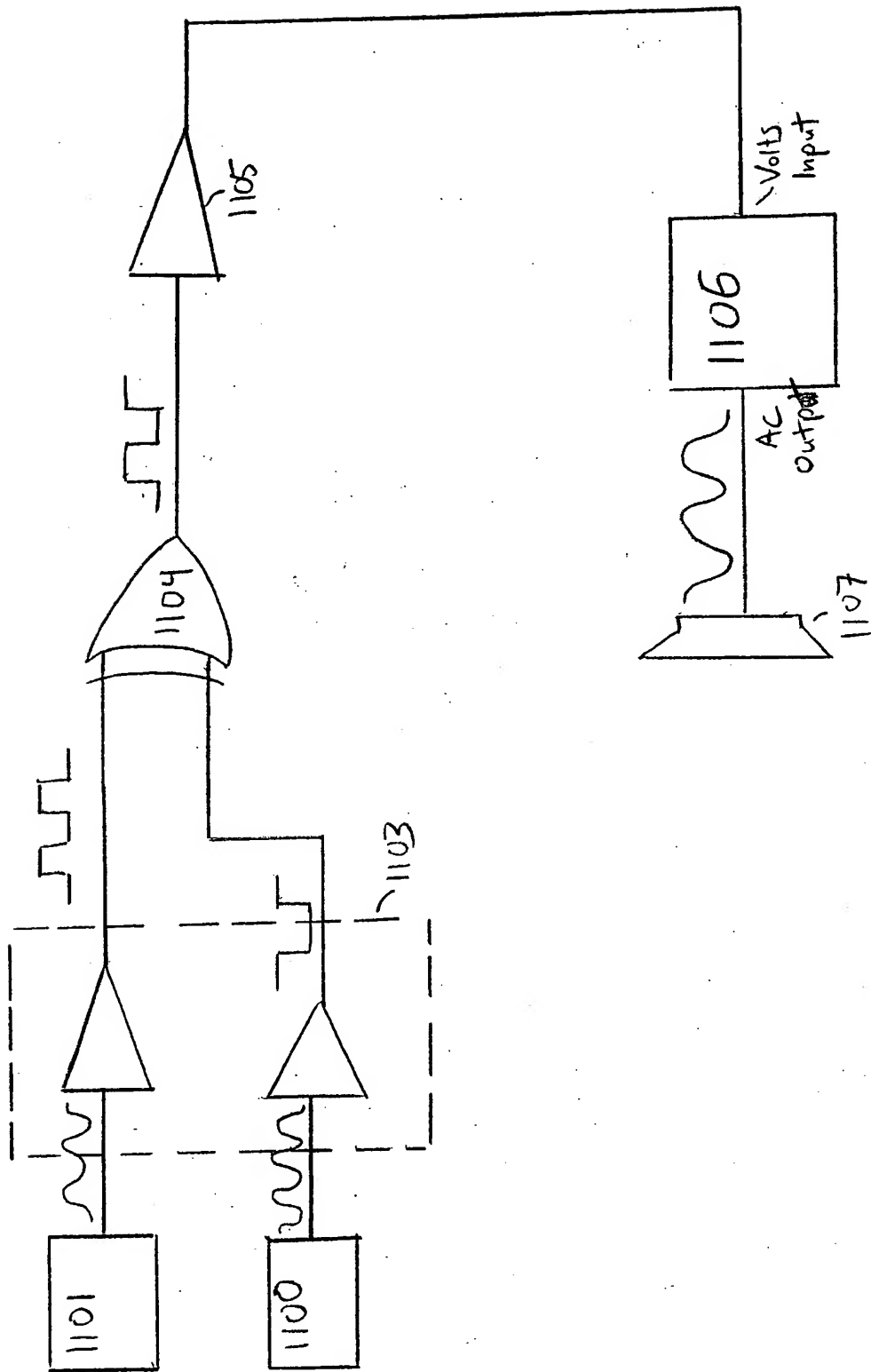


Figure 11

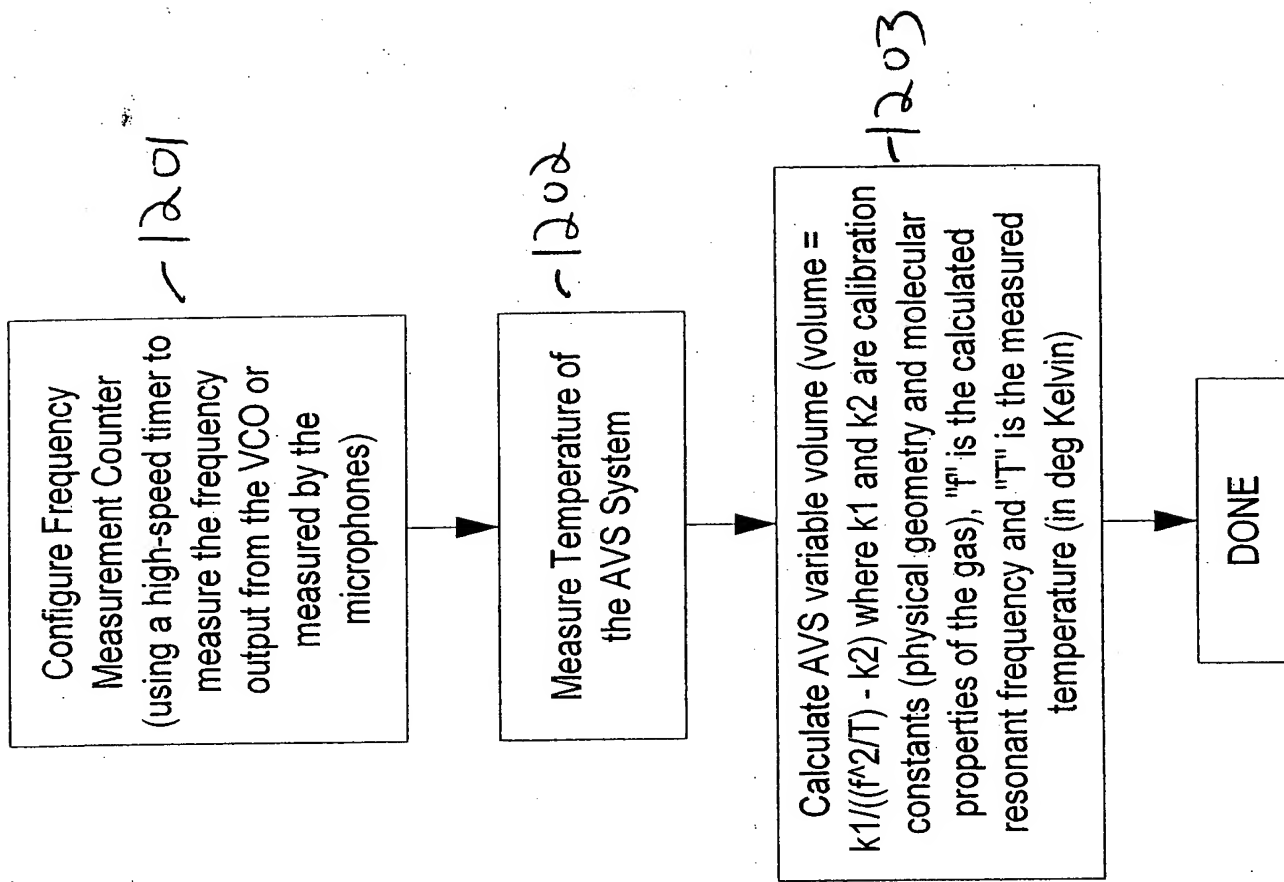


FIGURE 12

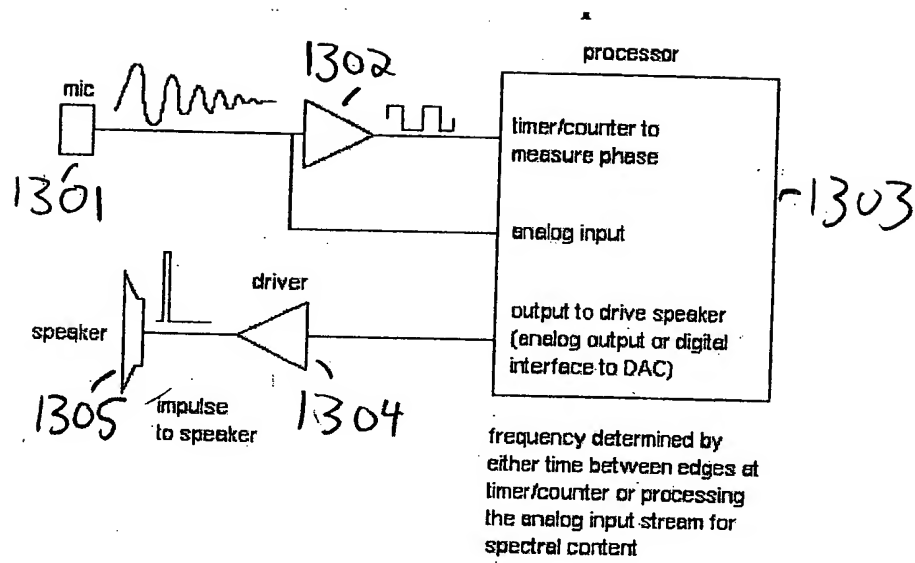
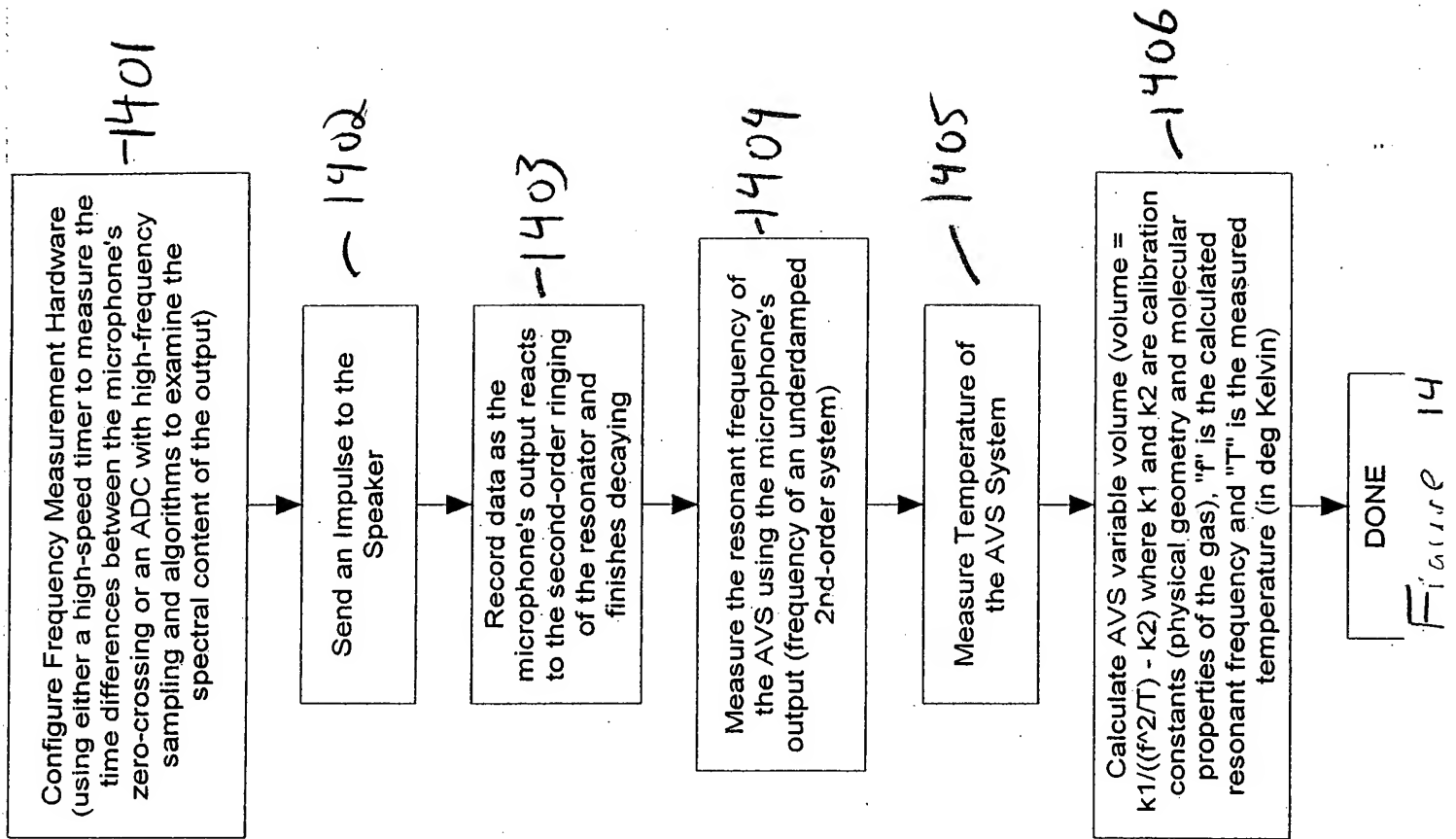


Figure 13



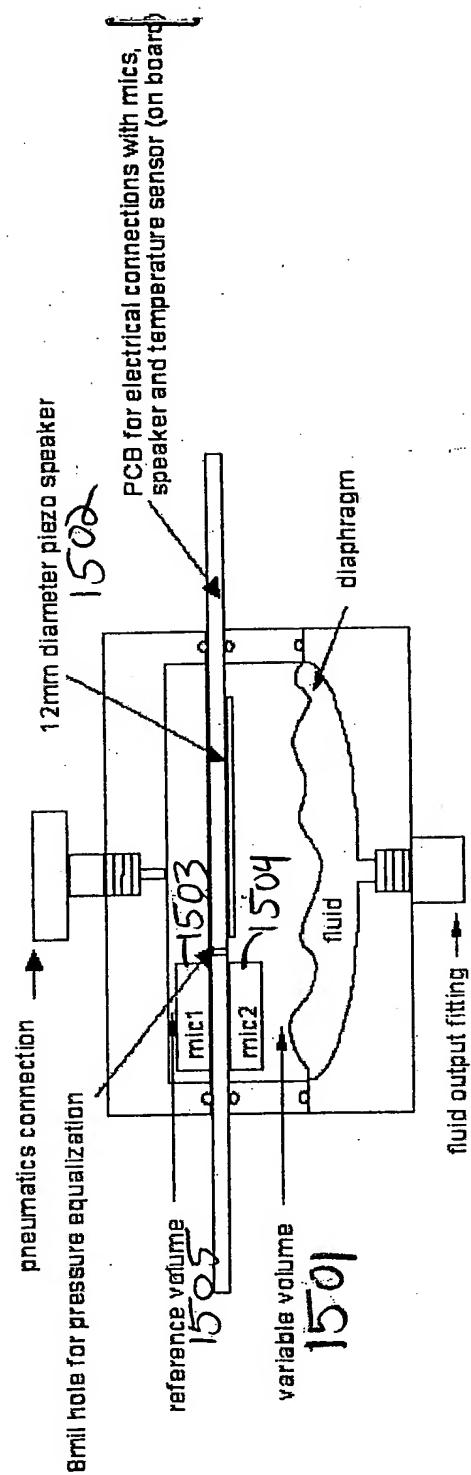


Figure 15

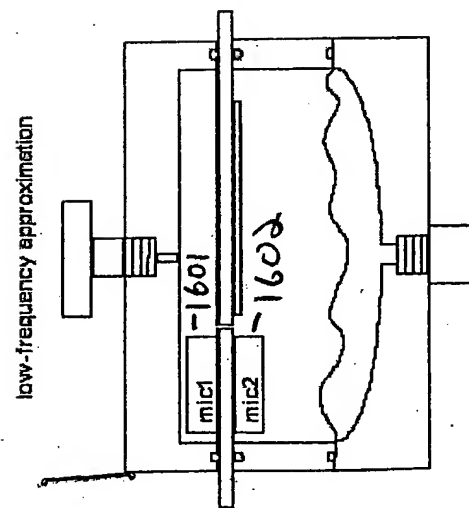


Figure 16

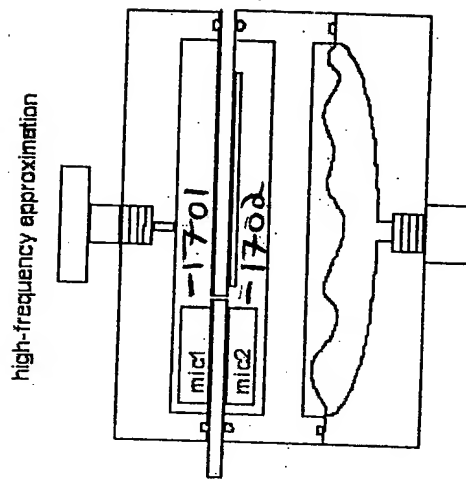
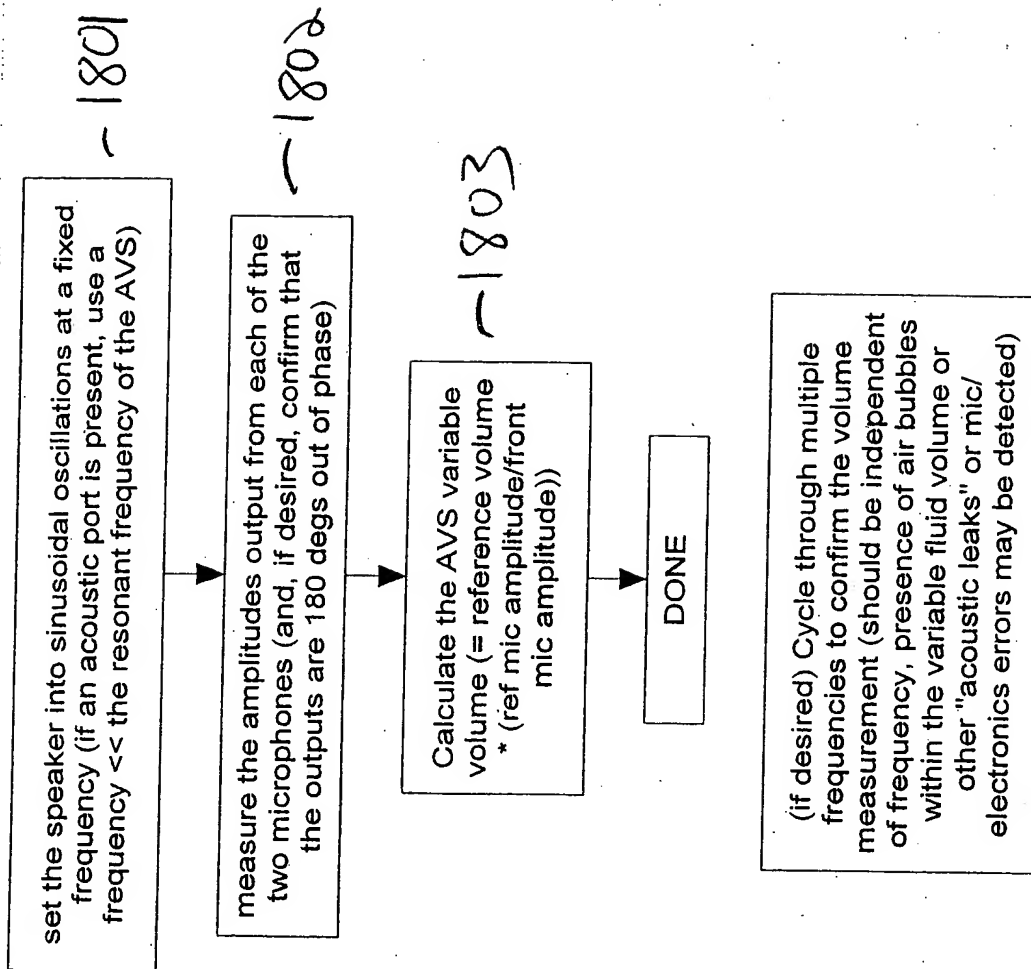


Figure 17





(if desired and using AVS) Perform a volume measurement (with amplitude ratio technique) using a frequency  $\gg$  resonant frequency of AVS (should be equal to the fixed volume and independent of the variable volume). This is a good confirmation of system performance and may be used to assist in air bubble detection or compensation for microphone sensitivity drift or electronics errors.

Figure 18